

UG VW Tiguan II F2.1
- 18 cm VW-compo-system from Eton

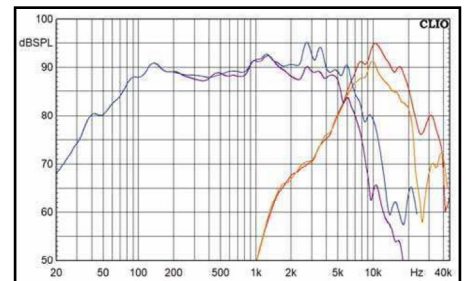


Sound Upgrade

BEST PRODUCT
VW-Speakers
CAR&HiFi 2/2020



Till now the door with the tightest space for the magnet: 29 mm installation depth in the Tiguan II



The UG Tiguan II pays proper respect to level at almost 90 dB. Both chassis are very tidy and give no trouble at all

Eton UG VW Tiguan II F2.1

► Eton has already fitted the first Tiguan with a speaker upgrade, now it is the turn of the successor model, the Tiguan II.

Eton's subfamily Upgrade Audio is enjoying growing popularity as it is only reasonable that more new special systems continually appear. The range now includes speakers for BMW, Mercedes, Opel, Volkswagen, and Fiat/Peugeot/Citroën. Naturally, within the Volkswagen upgrades we should also mention Golf VI and VII, T5 and T6, as well as Polo and Tiguan. The latest system fits in the Tiguan II and the designation F2.1 indicates a two-way front system. Like all speaker upgrade sets, the Tiguan II also comes with complete

installation material so that installation is plug & play. Even rivets and cable ties are supplied, and the appropriate VW connectors are naturally there too. In contrast to the Golf and Polo, which have 15-cm woofers installed, and the minibus/transporter with its 20-cm installation slots, on the Tiguan we are dealing with 18-cm speakers. It goes without saying that the woofer sits in a precisely fitting, special plastic basket so that it is optimally placed on the unit carrier and door panel. Its technology is based on Eton's proven POW sys-

tem so that the UG Tiguan II also comes with a fiber glass paper cone driven by a 25-cm voice coil. Both chassis are made in Neu-Ulm in the company's own factory. As in the T6, an extra large 28-mm dome is employed for the tweeter, which uses a woven membrane to emit the sound. Whereas the bass midrange speaker manages without a crossover, the tweeter has one integrated in the wiring loom. That makes the installation simpler and avoids connection faults. A film capacitor and an inductor take care of the separation of



The tweeter works with an extra large 28-mm membrane, and the crossover is integrated into the wiring

the tweeter in an entirely conventional way.

Measurements and Sound

In front of the measurement microphone the first thing you notice is the high sound pressure level of the Tiguan II. For the large 28-mm tweeter that is no problem, but the 18-cm bass midrange speaker has to resort to a little trick. Its 2-ohm voice coil provides for a higher power output of the amplifier or car radio, which compared with a 4-ohm speaker would theoretically bring 3 dB. Furthermore there is no crossover in the mid-range to eat up sound pressure. So at 89 dB the 18-cm unit provides more than enough for us. And the driver has very modest distortion, At moderate levels it is only very little, being in the order of 0.5 %. Moreover, its long-stroke drive is not in the least overawed even at very high levels. Almost as expected the tweeter also works well so that we are very impressed by the Tiguan II. Soundwise the system delighted us with a balanced, pleasant sound

image that is a joy to listen to. The woofer is impressive and fairly deep so that first off you do not miss anything. At the top end there are enough details, and the clean spatial reproduction knows how to please. Moreover, typical for this type of Eton system is the faithful detail and very beautiful natural reproduction of voices and instruments so that the Tiguan II set can also be recommended for more grown up music genres. At the level achievable the set also does not disappoint in practice so that it is very easy to recommend it.

Summary

The UG Tiguan II F2.1 performs splendidly and is quickly installed. An all-round carefree upgrade for the Tiguan II.



The Eton woofer comes with a fiber-reinforced plastic basket especially for the front doors in the Tiguan II



Eton UG VW Tiguan II F2.1

Distributor	Eton, Neu-Ulm		
Hotline	0731 70785-20		
Internet	www.etongmbh.de		

▶ Sound quality	55 %	1,2	■■■■■
Bass	11 %	1,0	■■■■■
Neutrality	11 %	1,5	■■■■■
Transparency	11 %	1,0	■■■■■
Soundstaging	11 %	1,0	■■■■■
Dynamics	11 %	1,5	■■■■■
▶ Lab	30 %	1,2	■■■■■
Frequency response	10 %	1,5	■■■■■
Max. volume	10 %	1,0	■■■■■
Distortion	10 %	1,0	■■■■■
▶ Practice	15 %	1,3	■■■■■
Installation	5 %	1,0	■■■■■
Crossover	5 %	1,5	■■■■■
Workmanship	5 %	1,5	■■■■■

Technical Data

Chassis diameter	180 mm
Mounting depth incl. ring	29 mm
Magnet diameter	85 mm
TW dome diameter	28 mm
TW housing diameter	42 mm
Crossover slope MW/TW	- / 12 dB
Tweeter protection	-
Tweeter volume adjustment	-
Fits in	Tiguan II Front
Other	-
Nominal impedance	2 ohms
DC resistance R _{dc}	1,95 ohms
Coil inductivity L _e	0,20 mH
Coil diameter	25 mm
Cone surface S _d	186 cm ²
Resonance frequency f _s	63 Hz
Mechanical quality Q _{ms}	4,31
Electrical quality Q _{es}	0,86
Total quality Q _{ts}	0,72
Equivalent volume V _{as}	15,5 l
Moving mass M _{ms}	20,2 g
R _{ms}	1,84 kg/s
C _{ms}	0,32 mm/N
B* _l	4,23 Tm
Pressure 2 V, 1 m	89 dB
Power handling	20 – 100 W

Summary

Price	about 290 Euro		
Sound quality	55 %	1,2	■■■■■
Lab	30 %	1,2	■■■■■
Practice	15 %	1,3	■■■■■

Eton UG VW Tiguan II F2.1

VW Tiguan loudspeaker
Price/performance: very good

1,2

CAR&HIFI

edition 2/2020

„All-round carefree upgrade“